



Education News

Volume 9, Issue 1

John C. Stennis Space Center

Jan.-April 2005

EDUCATION NOTES

K - 12

Apply to be a NASA Explorer School by visiting the Web site <http://explorerschools.nasa.gov>.

Sign up today for free educator professional development workshops at Stennis Space Center.

Visit Stennis Space Center for JASON and Sun-Earth student activity days.

Higher Education

Summer internship applications will be due before you know it. Start preparing now for summer 2005 internship opportunities.

Apply today for NASA's Pre-Service Teacher Institute. Visit <http://www.nasa.gov/centers/stennis/education> and click on "Higher Education" for more information.

Visit <http://education.nasa.gov> for information about NASA education programs.

Sign up today for educator workshops

- Jan. 20 GLOBE Atmosphere
- Jan. 25 NASA CDs in the Classroom
- Jan. 27 Air...it's a Gas, Gas, Gas!
- Feb. 16 GLOBE Landcover
- Feb. 17 Ancient Observatories
Timeless Knowledge
- Feb. 23 ETO - Engineering Design
Challenges
- March 4 "A" is for Animals
- March 11 Our Geometric World
- March 16 STORM-E Weather!
- March 24 GLOBE Hydrology
- March 25 Human Physiology
in Space
- April 1 Making the Connection
with NASA Multimedia
- April 8 GLOBE Soil
- April 28 Earth's Water Cycle



How to register

Sign up today for free professional development workshops at the Stennis Space Center Educator Resource Center (ERC) and learn how to incorporate NASA research and resources into your curriculum.

From learning about our environment to utilizing technology, our workshops will enhance your classroom and take you and your students on a journey that is out of this world!

All workshops are free and offer continuing education units.

To make reservations, call the ERC at 1-800-237-1821 (option 2) or (228) 688-3338 between 7 a.m. and 3 p.m. Monday - Friday. For further information, e-mail sherrill.reynolds@ssc.nasa.gov.

Visit our Web site at www.nasa.gov/centers/stennis/education



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Don't miss out on exciting NASA educational opportunities

NASA Explorer Schools - Middle school educators, the NASA Explorer Schools program is a unique opportunity to partner with NASA for three years of grants and professional development opportunities specialized for your school. The application deadline is Jan. 31. Apply online at <http://explorer.schools.nasa.gov>.

NASA Student Involvement Program (NSIP) - Students in grades K-12 can participate in NSIP - a competition with various categories linked to NASA's missions. Students with winning entries may win a trip to present their research project at the NASA Explorer School Student Symposium. Entries for the Space Flight Opportunities category of the competition are due by Jan. 15, while all other entries are due by Jan. 31. Visit <http://www.nsip.net> for more information.

Summer High School Apprenticeship Research Program (SHARP) - NASA's Office of External Affairs and Education at Stennis Space Center is now accepting NASA SHARP applications. For additional information and program requirements visit <http://www.nasasharp.com> or contact Joy Smith at (228) 688-2118. The deadline for applications is Feb. 14, 2005. No late applications are accepted.

Celebrate Sun-Earth Day with NASA



Bring your students to Stennis Space Center (SSC) to celebrate the Sun! On April 21 and April 22, SSC is hosting activity days for students.

First- through third-grade students are invited to participate on April 21, and April 22 will be a day for fourth- through sixth-grade students.

Educators, register with the SSC Educator Resource Center for the Ancient Observatories Timeless Knowledge professional development workshop on Feb. 17 to help prepare your students for Sun-Earth Day!

Visit <http://www.sunearthday.nasa.gov> for more information about NASA's Sun-Earth celebration.

Apply for internships!

There is still time to apply for higher education internships for summer 2005

Deadlines for various Higher Education internship and fellowship opportunities are approaching quickly. Visit <http://education.nasa.gov> and click the "Students" section and then the "Post-secondary" section for the latest information about these and other NASA internship and research opportunities.

Graduate Student Researchers Program (GSRP)

The NASA GSRP awards fellowships for graduate study leading to research-based masters or doctoral degrees in the fields of science, mathematics and engineering. Applications are due Feb. 1. If you have questions about the application process, visit <http://education.nasa.gov/gsrp>.

NASA Undergraduate Student Research Program (USRP)

Undergraduate students have the unique opportunity to conduct mentored research at NASA centers across the United States. Students with a concentration in engineering, mathematics, computer science or physical/life sciences should visit the Web site at <http://education.nasa.gov/usrp> for more information. Applications are due Jan. 31.

NASA Summer Faculty Research Opportunities

University faculty have the opportunity to spend 10 weeks conducting research at a NASA center. Applications for the summer of 2005 will be available online soon. For more information visit <http://education.nasa.gov/nffp>.

...to inspire the next generation of explorers

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Sign kids up for Astro Camp



Astro Camp Saturdays

One-Day Camps for Ages 9-12

- | | |
|----------|--|
| Feb. 12 | Trading Spaces: From Earth to the Moon |
| March 12 | Mission to Mars |
| April 16 | International Space Station |
| May 14 | Return to Flight |

Weeklong Astro Camp Summer

Camps for Ages 7-9 and 10-12

Return to Flight

On this mission, activities will illustrate the propulsion principles that will return the Space Shuttle to flight. Campers will learn about STS-114, NASA's Return to Flight mission, and will build and launch real rockets!

For 7- to 9-year-olds

- June 6-10
- June 13-17
- June 20-24
- June 27-July 1

For 10- to 12-year-olds

- July 11-15
- July 18-22
- July 25-29

To register or for more information, visit www.nasa.gov/centers/stennis and click on the Astro Camp logo or call (800) 237-1821.



NASA program prepares future teachers for the classroom

This summer, Stennis Space Center (SSC) is offering students who are preparing for careers in the classroom a wonderful opportunity to enhance their math and science instruction skills.

NASA's Pre-Service Teacher Institute (PSTI) is an intense, two-week session for students attending minority institutions who are preparing to teach elementary and middle school.

College students from diverse backgrounds spend an exciting time at SSC where they are exposed to problem-based learning, and math and science enrichment activities.

Pre-service teachers interact with NASA personnel and tour SSC facilities while learning to incorporate NASA's research into the classroom.

For more information and to apply, visit <http://www.nasa.gov/centers/stennis/education> and click on "Higher Education."



Apply today!

NASA Educator Resource Centers

If you live too far away from the Educator Resource Center (ERC) at Stennis Space Center, there are other NASA ERCs in Mississippi and Louisiana to serve you.

In Louisiana contact:

Louisiana Tech ERC
(318) 257-2866

In Mississippi Contact:

Mississippi Band of Choctaw
Indians ERC
(601) 656-0259
Jackson State University ERC
(601) 979-1177

JASON broadcasts at Stennis Space Center

The Stennis Space Center (SSC) Educator Resource Center is hosting an event for students of JASON-trained educators Feb. 2 and Feb. 3.

Students will participate in hands-on activities and will watch NASA SSC scientists in broadcasts from Louisiana's wetlands for this year's "Disappearing Wetlands" Expedition.

Visit <http://www.jasonproject.org> to learn more about the JASON project.

ISS exhibit coming to Stennis Space Center

A traveling exhibit highlighting the International Space Station (ISS) is coming to Stennis Space Center Jan. 12 - Feb. 1.

The exhibit educates and entertains visitors with the story of space exploration and helps visitors see what it is like to live and work on the ISS.

Educators, this exhibit is a great addition to StenniSphere exhibits. Call StenniSphere at 1-800-237-1821 to schedule field trips.

DEVELOP students at SSC use Earth science to help communities

NASA's DEVELOP Program fosters human capital development to extend science research to local communities.

DEVELOP student teams research NASA science capabilities relevant to community concerns and create advanced computer-generated visualizations demonstrating research results. Projects are designed to achieve the widest coverage and use of NASA's science missions and models. Each project requires partnerships with the target community to achieve the greatest return on investment. Students work with state, local and tribal governments, industry, non-profit organizations and federal agencies to attract long-term technological and educational benefits to the community.

DEVELOP students at Stennis Space Center (SSC) work through a partnership between the Applied Sciences Directorate and the Office of External Affairs and Education.

The SSC DEVELOP team for this semester included a student director, one high school student and four undergraduate students from the local area. Research focused on the Alabama Water Management project after community concern in southern Alabama arose over contamination of local waterways. SSC DEVELOP students used NASA satellite data from Landsat 1 MSS, Landsat 7 TM, ASTER and SRTM to help determine potential sources of non-point source pollution. A research report with the advanced computer-generated visualizations and shape files will be sent to the Mobile County Health Department and Alabama Department of Environmental Management.

For the spring 2005 term, the SSC DEVELOP program will focus on using data from NASA's missions and models to study wetland degradation and loss.

High school and university students with at least a 3.0 grade point average and an interest in Earth science, technology or math are eligible to apply for the DEVELOP program. For more information about the DEVELOP National Program please visit the DEVELOP Web site at <http://develop.larc.nasa.gov>.

Education News is published by the NASA John C. Stennis Space Center Office of External Affairs and Education. Adm. Thomas Q. Donaldson V, USN (Ret.) is the center director; Pamela Covington is the manager of the Office of External Affairs and Education, and Dr. Dewey Herring is the education officer.

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Visit the Stennis Space Center
Education Office Web site at:
www.nasa.gov/centers/stennis/education.